

ABSTRACT OF THE DISCLOSURE

A method for setting a cut-through optical path in an optical network system is proposed. Each node device inquires of node devices adjacent to the present node device about connection information on the present node device and connection information on the node devices adjacent to the present node device each time a predetermined time elapses or each time a predetermined event is generated. When the inquiry is received from the node device adjacent to the present node device, the present node device responds with the connection information and/or traffic information on the present node device and the connection information on the node device adjacent to the present node device. Then, each node device controls an optical switch based on the connection information on the entire optical network system obtained by the above inquiry and sets an optical path which omits the packet processing functions for layer 3 systems of the node device which the node control device controls when a cut-through setting packet is received or based on self judgment.